

ANAESTHETIC DOSING GUIDELINES

Starting and Maximum Doses of 1.0% Lidocaine with and without Bupivacaine, By Volume

If bupivacaine to be used with lidocaine 1.0%, use concentration of 0.25% with 1:1 combination

Safe local anaesthetic dosing—starting* and *maximum*** volumes

1% Lidocaine

Weight in KG	Starting volume	<i>Maximum safe volume</i>
20–29 kg***	4 ml	Additional 2 ml to TOTAL of 6 ml
30–39 kg	6 ml	Additional 3 ml to TOTAL of 9 ml
40–50 kg	8 ml	Additional 4 ml to TOTAL of 12 ml
More than 50 kg	10 ml	Additional 5 ml to TOTAL of 15 ml

*Starting dose lidocaine (lignocaine) 2 mg/kg

***Maximum safe dose lidocaine 3 mg/kg*

***For those weighing less than 30 kg, use 5ml syringe so that volumes can be measured accurately
Starting volume usually adequate; increase up to *maximum* volume (dose) only if required for pain control up to the *maximum*.

Safe local anaesthetic dosing—starting* and *maximum*** volumes

Mixture of 1% Lidocaine and 0.25% Bupivacaine

1:1 Mixture (equal volumes of each)

Weight in KG	Starting volume (1:1 mixture)	<i>Maximum safe volume</i> (1:1 mixture)
20–29 kg	3 ml of each (6 ml total)	Additional 1 ml of each drug to <i>TOTAL of 8 ml (maximum 4 ml of each)</i>
30–39 kg	4 ml of each (8 ml total)	Additional 2 ml of each drug to <i>TOTAL of 12 ml (maximum 6 ml of each)</i>
40–50 kg	5 ml of each (10 ml total)	Additional 3 ml of each drug to <i>TOTAL of 16 ml (maximum 8 ml of each)</i>
More than 50 kg	5 ml of each (10 ml total)	Additional 5 ml of each drug to <i>TOTAL of 20 ml (maximum 10 ml of each)</i>

*Starting dose lidocaine (lignocaine) 1.5 mg/kg/bupivacaine 0.3 mg/kg

***Maximum safe dose lidocaine 2.0 mg/kg/bupivacaine 0.5 mg/kg*

Starting volume usually adequate; increase up to *maximum* volume (dose) only if required for pain control up to the *maximum*.

To improve provider efficiency through minimizing numbers of syringes needed, starting doses have been kept at or below 10 ml and maximum doses at or below 20 ml

Starting and Maximum Doses of 2.0% Lidocaine with and without Bupivacaine, by Volume

If bupivacaine to be used with lidocaine 2.0%, use concentration of 0.5% with 1:1 combination

Safe local anaesthetic dosing—starting* and *maximum*** volumes

2% Lidocaine

Weight in KG	Starting volume	<i>Maximum safe volume</i>
20–29 kg***	2 ml	Additional 1 ml to TOTAL of 3 ml
30–39 kg***	3 ml	Additional 1 ml to TOTAL of 4 ml
40–50 kg	4 ml	Additional 2 ml to TOTAL of 6 ml
More than 50 kg	5 ml	Additional 2 ml to TOTAL of 7 ml

*Starting dose lidocaine (lignocaine) 2 mg/kg

***Maximum safe dose lidocaine 3 mg/kg*

***Use 5ml syringe so that volumes can be measured accurately

Starting volume usually adequate; increase up to *maximum* volume (dose) only if required for pain control up to the *maximum*.

Safe local anaesthetic dosing—starting* and *maximum*** volumes

Mixture of 2% Lidocaine and 0.5% Bupivacaine

1:1 Mixture (equal volumes of each)

Weight in KG	Starting volume (1:1 mixture)	<i>Maximum safe volume</i> (1:1 mixture)
20–29 kg***	1 ml of each (2 ml total)	Additional 1 ml of each drug to TOTAL of 4 ml (maximum 2 ml of each)
30–39 kg***	2 ml of each (4 ml total)	Additional 1 ml of each drug to TOTAL of 6 ml (maximum 3 ml of each)
40–50 kg	3 ml of each (6 ml total)	Additional 1 ml of each drug to TOTAL of 8 ml (maximum 4 ml of each)
More than 50 kg	4 ml of each (8 ml total)	Additional 1 ml of each drug to TOTAL of 10 ml (maximum 5 ml of each)

*Starting dose lidocaine (lignocaine) 1.5 mg/kg/bupivacaine 0.3 mg/kg

***Maximum safe dose lidocaine 2.0 mg/kg/bupivacaine 0.5 mg/kg*

***Use 5ml or smaller syringe so that volumes can be measured accurately

Starting volume usually adequate; increase up to *maximum* volume (dose) only if required for pain control up to the *maximum*.